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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/928,946	08/13/2001	Joachim Ebermann	A34359 071308.0169	8757
21003	7590 10/01/2004		EXAM	NER
BAKER & BOTTS			VOELTZ, EMANUEL T	
30 ROCKEFE NEW YORK,	ELLER PLAZA NY 10112		ART UNIT	PAPER NUMBER
			2121	
			DATE MAILED: 10/01/2004	· ()

Please find below and/or attached an Office communication concerning this application or proceeding.

X

	Application No.	Applicant(s)				
	09/928,946	EBERMANN ET AL.				
Office Action Summary	Examiner	Art Unit				
	Emanuel T. Voeltz	2121				
The MAILING DATE of this communicati Period for Reply	ion appears on the cover sheet wi	th the correspondence address				
A SHORTENED STATUTORY PERIOD FOR THE MAILING DATE OF THIS COMMUNICATORY Extensions of time may be available under the provisions of 37 after SIX (6) MONTHS from the mailing date of this communication of the period for reply specified above is less than thirty (30) day of 16 to 17 period for reply is specified above, the maximum statutor Failure to reply within the set or extended period for reply will, the Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	TION. CFR 1.136(a). In no event, however, may a reation. ys, a reply within the statutory minimum of thirt y period will apply and will expire SIX (6) MON by statute, cause the application to become AB	eply be timely filed y (30) days will be considered timely. THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed or	n <u>13 August 2001</u> .					
2a) This action is FINAL. 2b)						
3) Since this application is in condition for a	☐ Since this application is in condition for allowance except for formal matters, prosecution as to the ments is					
closed in accordance with the practice u	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) ⊠ Claim(s) 1-7 is/are pending in the applic 4a) Of the above claim(s) is/are w 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1-7 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction	rithdrawn from consideration.					
Application Papers						
9)☐ The specification is objected to by the Ex	kaminer.					
10) The drawing(s) filed on is/are: a)[☐ accepted or b)☐ objected to	by the Examiner.				
Applicant may not request that any objection	to the drawing(s) be held in abeyan	ice. See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the 11) The oath or declaration is objected to by	· · · · · · · · · · · · · · · · · · ·					
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for fa a) All b) Some * c) None of: 1. Certified copies of the priority doc 2. Certified copies of the priority doc 3. Copies of the certified copies of the application from the International * See the attached detailed Office action for	uments have been received. uments have been received in A ne priority documents have been Bureau (PCT Rule 17.2(a)).	pplication No received in this National Stage				
Attachment(s)						
1) Notice of References Cited (PTO-892)		summary (PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-S 3) Information Disclosure Statement(s) (PTO-1449 or PTO	/SB/08) 5) Notice of Ir	s)/Mail Date formal Patent Application (PTO-152)				
Paper No(s)/Mail Date	6)					

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Examiner's Detailed Office Action

The indicated allowability of claims 1-7 is withdrawn in view of a subsequent review under 35 U.S.C. 101, non-statutory subject matter.

A rejection to claims 1-7 is outlined below.

Claims 1-7 have been examined.

Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 1-7 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

The claims, as presently claimed and best understood were considered in light of the new "Examination Guidelines for Computer-Related Inventions" and were found to be non-statutory.

Discussion of the analysis of the claims under the guidelines follows

As per claims 1-7, the invention, as defined by the claims and as best understood merely manipulate an abstract idea or perform a purely mathematical algorithm without any limitation to a practical application in the technological arts. The invention is implemented on a computer; therefore, the invention is directed to the technological arts. However, the claimed invention merely recites a mathematical formula that could be envisioned using paper and pencil. The

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invention does not require physical acts to be performed outside the computer independent of and following the steps to be performed by a programmed computer, where those acts involve the manipulation of tangible physical objects and result in the object having a different physical attribute or structure. See *Diamond v. Diehr*, 450 US at 187, 209 USPQ at 8. The step of "determining a threshold value crossing time..." does not impose independent limitations on the scope of the claim beyond those required by the mathematical operation and abstract limitations because the "determining a threshold value crossing time" is not an actual measured value of physical phenomena. The claimed method is merely linear extrapolation in a mathematical sense. *In re Galnovatch*, 595 F.2d at 41 n.7, 201 USPQ at 145 n.7; *In re Sarker*, 588 F.2d at 1331, 200 USPQ at 135. The step of "determining..." has no direct effect on the physical world outside the computer. Thus, the claimed invention merely inputs data into the system and performs a mathematical algorithm without any limitation to a practical application as a result of the algorithm or outcome and is therefore deemed to be non-statutory.

Correspondence Information

Any inquiries concerning this communication or earlier communications from the examiner should be directed to **Emanuel Todd Voeltz** who may be reached via telephone at **(703) 305-4563**. The examiner can normally be reached Monday through Friday between the hours of 8:00 a.m. and 4:00 p.m. eastern standard time.

If you need to send an Official facsimile transmission, please send it to (703) 872-9306. If you would like to send a Non-Official (draft) facsimile transmission the fax is (703) 746-5104. If attempts to reach the examiner by telephone are unsuccessful, the Examiner's Supervisor, Anthony Knight, may be reached at (703) 308-3179.

SPECIAL NOTE (After October 14, 2004)

Any inquiries concerning this communication or earlier communications from the examiner

should be directed to Emanuel Todd Voeltz who may be reached via telephone at (571) 272-3692. The

examiner can normally be reached Monday through Friday between the hours of 8:00 a.m. and 4:00 p.m.

eastern standard time.

If you need to send an Official facsimile transmission, please send it to (703) 872-9306. If you

would like to send a Non-Official (draft) facsimile transmission the fax is (703) 746-5104. If attempts to

reach the examiner by telephone are unsuccessful, the Examiner's Supervisor, Anthony Knight, may be

reached at (571) 272-3687.

Any response to this office action should be mailed too: Director of Patents and Trademarks

Washington, D.C. 20231.

Moreover, hand-delivered responses should be delivered to the Receptionist, located on the

fourth floor of Crystal Park 11, 2121 Crystal Drive Arlington, Virginia.

Emanuel Todd Voeltz
Primary Patent Examiner
Art Unit 2121
United States Department of Commerce

Patent & Trademark Office

DOUBLE DV EVARIBLED

PRIMARY EXAMINER